

AMENDMENT TO THE CLAIMS

Kindly cancel claims 7-10, 13, 14, 16, 20-23, and 26-29 without prejudice to, or disclaimer of, the subject matter disclosed therein. The subject matter of claims 9 and 10 is contained in claims 3 and 4. The subject matter of claims 14, 16 and 20 have been subsumed into new claim 30. Similarly, the subject matter of claim 22 is now subsumed within claim 24, and the subject matter of claim 23 is now subsumed within claim 25. The subject matter of claims 26 and 27 were deemed redundant while the subject matter of claims 28 and 29 are subsumed within new claims 30-32.

Kindly amend claims 1, 3, 4, 15, 17, 24 and 25 and add new claims 30-32 as indicated below.

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

- Sup c1*
1. (Currently Amended) A system for ~~transporting~~ establishing a dedicated channel to transport IP encapsulated ATM cells from one ATM network associated with a source gateway to another ATM network associated with a destination gateway over an IP backbone network, ~~the ATM cells including an ATM destination address,~~ the system comprising:
- a source gateway interconnected to the IP backbone network, said source gateway operable to;
- ~~encapsulate ATM cells with at least one of a TCP/IP or UDP/IP headers to form IP packets; and~~
- b1*

transmit an IP signaling message requesting an IP address of a proper destination gateway to [[said]] a controller upon receipt of an ATM signaling message from an ATM end point;

receive the IP address from the controller confirming the address of the proper destination gateway from the controller;

transmit an address registration message to the controller to register the source gateway;

exchange set-up messages with the proper destination gateway to transport IP encapsulated ATM cells associated with a call; and

transmit an open logical channel request message to the controller to request the establishment of a dedicated channel between the source gateway and the destination gateway to transport IP encapsulated ATM cells.

2. (Cancelled)

Sube' 3. (Currently Amended) The system of ~~claim 2~~ claim 1 wherein the ATM signaling message is an ATM UNI signaling message.

4. (Currently Amended) The system of ~~claim 2~~ claim 1 wherein the IP signaling message follows the H.323 protocol.

5. - 14. (Cancelled)

15. (Currently Amended) The method of ~~claim 14~~ claim 30 wherein the step of receiving a ~~corresponding~~ the IP address from the controller is performed via a H.323 protocol message.

16. (Cancelled)

sup c'1 17. (Currently Amended) The method of ~~claim 16~~ claim 30 wherein the ~~signaling message set-up messages to the destination gateway uses~~ use a Q.2931 signaling format.

18. - 23. (Cancelled)

sup c'1 24. (Currently Amended) ~~[[The]]~~ A system of claim 1, further for
establishing a dedicated channel to transport IP encapsulated ATM cells from
one ATM network associated with a source gateway to another ATM network
associated with a destination gateway over an IP backbone network
comprising:

a destination gateway interconnected to the IP backbone network, said destination gateway operable to; ~~receive IP packets from said IP backbone network and decapsulate the ATM cells from the IP packets~~

transmit an automatic retransmission request to a controller to register
the destination gateway and to determine whether the destination gateway may
receive IP encapsulated ATM cells associated with a call from a source gateway;

receive a confirmation message from the controller confirming the destination gateway may receive the ATM cells;

exchange set-up messages with a source gateway to transport IP encapsulated ATM cells over the IP backbone network;

transmit an open logical channel request message to the controller to open a dedicated channel between the destination gateway and the source gateway;

transmit an alert message to the source gateway to inform the source gateway that an ATM endpoint has been alerted about the call; and

transmit a call proceeding message to the source gateway.

25. (Currently Amended) ~~[[The]]~~ A system of claim 1, further for establishing a dedicated channel to transport IP encapsulated ATM cells from one ATM network associated with a source gateway to another ATM network associated with a destination gateway over an IP backbone network comprising:

a controller interconnected to the IP backbone network, said controller operable to; ~~translate the ATM destination address to a corresponding destination gateway address~~

transmit an IP address of a proper destination gateway to a source gateway using an IP signaling message;

receive an address registration message from the source gateway to
register the source gateway and an automatic retransmission message from the
destination gateway to register the destination gateway; and
transmit acknowledgements to the source and destination gateways to
acknowledge the opening of a logical channel between the source and
destination gateways in response to receiving one or more open logical channel
request messages.

26. - 29. (Cancelled)

B1
Sub C1 } 30. (New) A method for establishing a dedicated channel to
transport IP encapsulated ATM cells from one ATM network associated with a
source gateway to another ATM network associated with a destination gateway
over an IP backbone network comprising:

transmitting an IP signaling message requesting an IP address of a
proper destination gateway to a controller upon receipt of an ATM signaling
message from an ATM end point;

receiving the IP address of the proper destination gateway from the
controller;

transmitting an address registration message to the controller to register
a source gateway;

exchanging set-up messages between the source gateway and the proper destination gateway to transport IP encapsulated ATM cells associated with a call; and

transmitting an open logical channel request message to the controller to request the establishment of a dedicated channel between the source gateway and the destination gateway to transport encapsulated ATM cells.

31. (New) A method for establishing a dedicated channel to transport IP encapsulated ATM cells from one ATM network associated with a source gateway to another ATM network associated with a destination gateway over an IP backbone network comprising:

transmitting an automatic retransmission request to a controller to register a destination gateway and to determine whether the destination gateway may receive IP encapsulated ATM cells associated with a call from a source gateway;

receiving a confirmation message from the controller confirming the destination gateway may receive the ATM cells;

exchanging set-up messages between a source gateway and the destination gateway to transport IP encapsulated ATM cells over the IP backbone network;

transmitting an open logical channel request message to the controller to open a dedicated channel between the destination gateway and the source gateway;

transmitting an alert message to the source gateway to inform the source gateway that an ATM endpoint has been alerted about the call; and
transmitting a call proceeding message to the source gateway.

32. (New) A method for establishing a dedicated channel to transport IP encapsulated ATM cells from one ATM network associated with a source gateway to another ATM network associated with a destination gateway over an IP backbone network comprising:

b₁ transmitting an IP address of a proper destination gateway to a source gateway using an IP signaling message;

receiving an address registration message from the source gateway to register the source gateway and an automatic retransmission message from the destination gateway to register the destination gateway; and

transmitting acknowledgements to the source and destination gateways to acknowledge the opening of a logical channel between the source and destination gateways in response to receiving one or more open logical channel request messages.